

Public Facility

East Matunuck State Beach

South Kingstown, RI

Profile

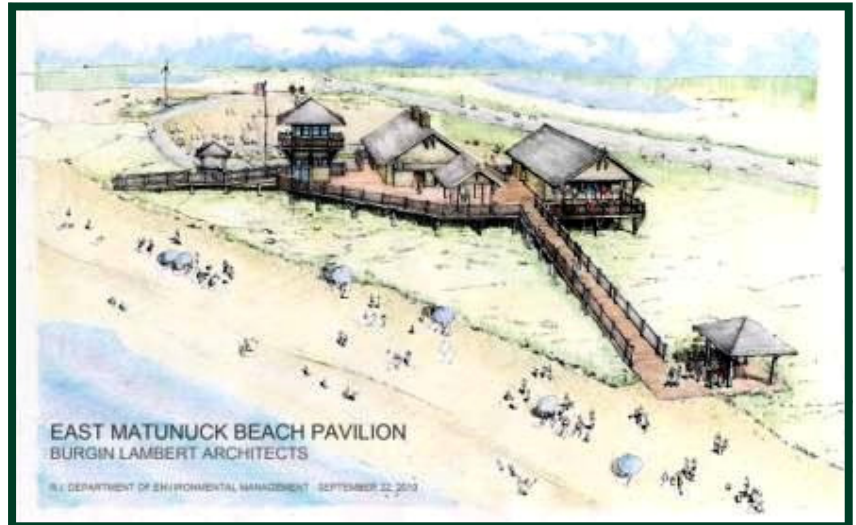
- 33-year old public bathhouse with flushing toilets and septic system
- 5000 people on a peak day
- 500 car parking lot
- 102 acre facility

Challenge

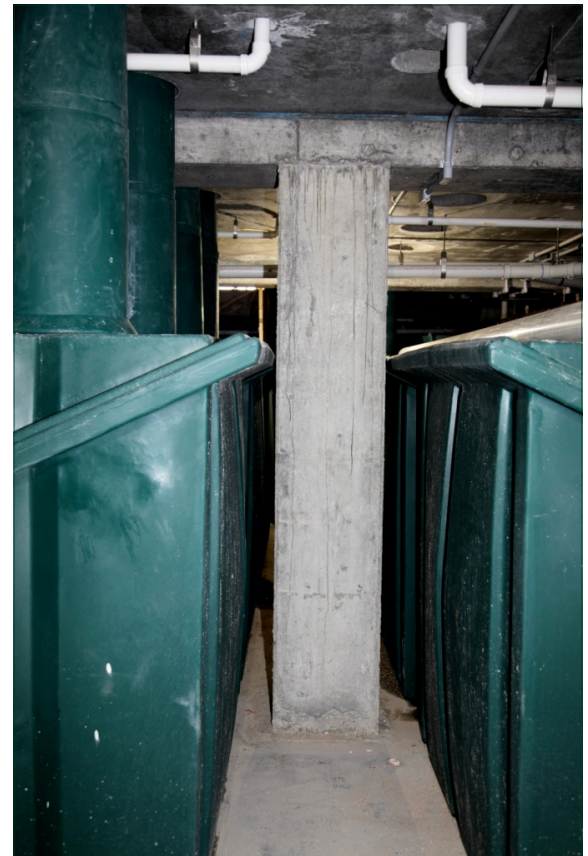
- Build a more energy efficient, environmentally friendly bathhouse following USGBC LEED standards
- Reduce fresh water usage
- Reduce wastewater flows
- Eliminate nitrogen from wastewater
- Upgrade and recycle existing septic system

Solution

- Installed Clivus composters and toilets
- Discharged nitrogen-rich liquid compost effluent to designated storage tanks for future pumping and removal
- Discharged only nitrogen-free greywater to the upgraded existing septic
- Drastically reduced fresh water consumption
- Markedly reduced wastewater flows
- Building design by Bergin Lambert Architects, Newport, RI
- Construction by Pezzuco Construction, Inc., Cranston, RI

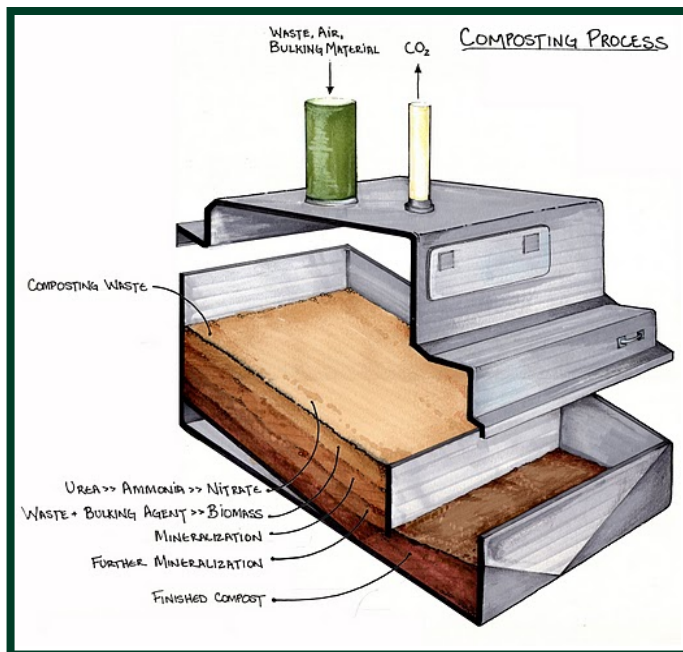


USGBC LEED Silver Award



Clivus New England is involved in its projects from pre-conception through the design and installation processes to ensure 100% feasibility. Usage data from the owner is collected for proper system sizing and architectural plans are analyzed to insure that structures can incorporate the Clivus equipment without undermining building or system designs. Clivus technicians work with contractors and plumbers to guarantee and certify that installations meet the manufacturer's requirements.

All Clivus systems are NSF Standard 41 Tested and Certified



Composting takes place in all soils which support plant and animal life. The Clivus systems employ the same process in the controlled environment of the composting chamber. As waste breaks down in the composter a less chemically complex, more chemically stable substance rich in organic matter and very similar to soil is produced. Human waste consisting mostly of water is reduced by over 90%. By-products of the composting process are water vapor and CO₂ and are released harmlessly into the atmosphere through the ventilation system.

